

EXERCISES ON CONVERSION BETWEEN PERCENTAGES, FRACTIONS AND DECIMALS

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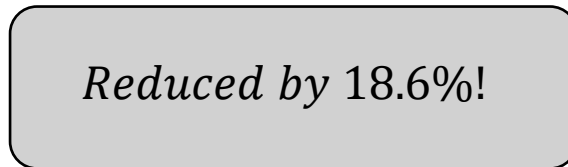
EXERCISE 1

Artemus is a Year 7 student. He stops by his local supermarket on the way to school and observes the following discounts.

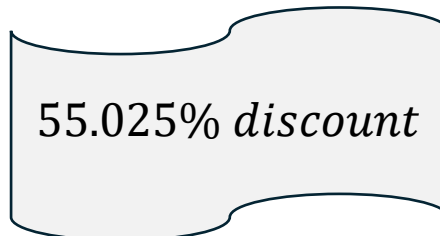
A.



B.



C.



Please convert each discount to both a fraction in simplest form and a decimal number.

EXERCISE 2

Artemus is attracted by discounts A and C from **Exercise 1** and decides that he would like to purchase the products that these discounts apply to.

Discount A applies to a bag of spinach, which costs \$7.50 at full price.



Discount C is a coupon that can be applied to items costing between \$2.50 and \$4.00.

- A. How much will Artemus pay for the bag of spinach after Discount A is applied?
- B. What price of item should Artemus buy so that he saves the greatest amount of money using Discount C?

Exercise continues on Page 5.

- C. If Artemus buys a bag of spinach using Discount A, and three-pack of bananas usually costing \$3.25 using Discount C, how much does he pay? (*Discounted total*)
- i. How much would Artemus have paid for the bag of spinach and three-pack of bananas without using Discounts A and C? (*Undiscounted total*). Please round your answer to the nearest second decimal place.
 - j. **Challenge**
What fraction of the Undiscounted total is the Discounted total? Please provide your answer in simplest form.

Hint: What fraction of 12 apples is 3 apples?

- i. **Challenge**
What percentage of the Undiscounted total is the Discounted total? Please round your answer to the nearest first decimal place.

Hint: Converting a fraction to a decimal and multiplying that decimal by 100 will convert the fraction into a percentage.